

**NAME**

**fgets**, **gets\_s** - get a line from a stream

**LIBRARY**

Standard C Library (libc, -lc)

**SYNOPSIS**

```
#include <stdio.h>
```

```
char *
```

```
fgets(char * restrict str, int size, FILE * restrict stream);
```

```
char *
```

```
gets_s(char *str, rsize_t size);
```

**DESCRIPTION**

The **fgets()** function reads at most one less than the number of characters specified by *size* from the given *stream* and stores them in the string *str*. Reading stops when a newline character is found, at end-of-file or error. The newline, if any, is retained. If any characters are read and there is no error, a '\0' character is appended to end the string.

The **gets\_s()** function is equivalent to **fgets()** with a *stream* of stdin, except that the newline character (if any) is not stored in the string.

The **gets()** function was unsafe and is no longer available.

**RETURN VALUES**

Upon successful completion, **fgets()** and **gets\_s()** return a pointer to the string. If end-of-file occurs before any characters are read, they return NULL and the buffer contents remain unchanged. If an error occurs, they return NULL and the buffer contents are indeterminate. The **fgets()** and **gets\_s()** functions do not distinguish between end-of-file and error, and callers must use **feof(3)** and **ferror(3)** to determine which occurred.

**ERRORS**

[EBADF]           The given *stream* is not a readable stream.

The function **fgets()** may also fail and set *errno* for any of the errors specified for the routines **fflush(3)**, **fstat(2)**, **read(2)**, or **malloc(3)**.

The function **gets\_s()** may also fail and set *errno* for any of the errors specified for the routine

getchar(3).

**SEE ALSO**

feof(3), ferrord(3), fgetln(3), fgetws(3), getline(3)

**STANDARDS**

The **fgets()** function conforms to ISO/IEC 9899:1999 ("ISO C99"). **gets\_s()** conforms to ISO/IEC 9899:2011 ("ISO C11") K.3.7.4.1. **gets()** has been removed from ISO/IEC 9899:2011 ("ISO C11").

**HISTORY**

The functions **fgets()** and **gets()** first appeared in Version 7 AT&T UNIX.